

16. (Amended) The method according to according to claim 15, wherein the carrier frequency lies in a 2.4 GHz band.

17. (Amended) The method according to according to claim 10, wherein the adaptor module converts GFSK-modulated data into pi/4 QPSK-modulated data or, respectively, converts received pi/4 QPSK-modulated data into GFSK-modulated data.

18. (Amended) The method according to claim 10, further comprising the step of changing the carrier frequency after a predetermined time duration.

19. (Amended) The method according to claim 18, wherein the carrier frequency is changed after a time slot or a frame of a transmission.

#### REMARKS

The present Amendment revises the specification and claims to conform to United States patent practice, before examination of the present PCT application in the United States National Examination Phase. Pursuant to 37 CFR 1.125 (b), applicants have concurrently submitted a substitute specification, excluding the claims, and provided a marked-up copy. All of the changes are editorial and applicant believes no new matter is added thereby. The amendment, addition, and/or cancellation of claims is not intended to be a surrender of any of the subject matter of those claims.

Early examination on the merits is respectfully requested.

Submitted by,

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**CUSTOMER NUMBER 26574**

Appendix A  
Mark Ups for Claim Amendments

This redlined draft, generated by CompareRite (TM) - The Instant Redliner, shows the differences between -

original document : Q:\DOCUMENTS\YEAR 2001\PO10018-SYDON-  
CONVERSION OF GFSK SIGS\ORIGINAL CLAIMS.DOC  
and revised document: Q:\DOCUMENTS\YEAR 2001\PO10018-SYDON-  
CONVERSION OF GFSK SIGS\AMENDED CLAIMS.DOC

CompareRite found 80 change(s) in the text

Deletions appear as Overstrike text surrounded by []  
Additions appear as Bold-Underline text

1. ~~{Mobile}~~**(Amended) A mobile** radiotelephone device for ~~{the}~~ **a** wireless transmission of QPSK-modulated data, comprising:

~~{--}~~a controller ~~{(22)}~~ that is designed for a transmission of GFSK-modulated data, and

~~{--}~~an adaptor module ~~{(23)}~~ that converts GFSK-modulated data output by the controller ~~{(22)}~~ into QPSK-modulated data to be transmitted or, respectively, that converts received, QPSK-modulated data into GFSK-modulated data and gives them to the controller~~{(23)}~~.

2. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to claim 1, ~~{characterized in that}~~ **wherein** the adaptor module ~~{(23)}~~ outputs a synchronization signal to the controller ~~{(22)}~~ in ~~{the}~~ synchronized conditions.

3. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to claim 1 ~~{or 2, characterized in that}~~, **wherein** the controller is a DECT controller~~{(22)}~~.

4. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to ~~{one of the claims 1, 2 or 3, characterized in that}~~ **claim 1, wherein** the adaptor module ~~{(23)}~~ synchronizes to a received, QPSK-modulated signal.

5. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to claim 4, ~~[characterized in that]~~ **wherein** the adaptor module ~~{{23}}~~ time-shifts the synchronization **received** signal for the controller ~~{{22}}~~ dependent on its synchronization onto the QPSK-modulated signal.

6. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to ~~[one of the preceding claims, characterized in that]~~ **claim 1, further comprising an RF module driven by** the adaptor module ~~{{23} drives an RF module (4, 5)}~~ such that the data are modulated onto a carrier frequency ~~{fx}~~ that lies outside the DECT band.

7. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to claim 6, ~~[characterized in that]~~ **wherein** the carrier frequency ~~{fx}~~ lies in a 2.4 GHz band.

8. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to ~~[one of the preceding claims, characterized in that]~~ **claim 1, wherein** the adaptor module is an ASIC~~{{23}}~~.

9. ~~{Mobile}~~**(Amended) The mobile** radiotelephone device according to ~~[one of the preceding claims, characterized in that]~~ **claim 1, wherein** the adaptor module ~~{{23}}~~ converts GFSK-modulated data into pi/4 QPSK-modulated data or, respectively, converts received pi/4 QPSK-modulated data into GFSK-modulated data.

10. ~~{Method}~~**(Amended) A method** for the wireless transmission of QPSK-modulated data with a controller ~~{{22}}~~ that is designed for a transmission of GFSK-modulated data, ~~[whereby]~~ **comprising the step of:**

**converting, by** an adaptor module~~{{23} converts}~~, GFSK-modulated data output by the controller ~~{{22}}~~ into QPSK-modulated data to be transmitted or, respectively, ~~[converts]~~ **converting, by the adaptor module,** received, QPSK-

modulated data into GFSK-modulated data and gives ~~[them]~~ the GFSK-modulated data to the controller~~[(23)]~~.

11. ~~[Method]~~**(Amended) A method** for the wireless transmission of QPSK-modulated data according to claim 10, ~~[characterized in that]~~ further comprising the step of outputting, by the adaptor module~~[(23) outputs]~~, a synchronization signal to the controller ~~[(22)]~~ in ~~[the]~~ a synchronized condition.

12. ~~[Method]~~**(Amended) The method** according to claim 11, ~~[characterized in that]~~ wherein the controller is a DECT controller~~[(22)]~~.

13. ~~[Method]~~**(Amended) The method** according to ~~[one of the claims 11 or 12, characterized in that]~~ claim 10, further comprising the step of self-synchronizing by the adaptor module ~~[(23) synchronized itself]~~ from a received, QPSK-modulated signal.

14. ~~[Method]~~**(Amended) The method** according to claim 13, ~~[characterized in that]~~ further comprising the step of time-shifting, by the adaptor module~~[(23) time-shifts]~~, the synchronization signal for the controller ~~[(22)]~~ dependent on its synchronization onto the QPSK-modulated signal.

15. ~~[Method]~~**(Amended) The method** according to according to ~~[one of the preceding claims, characterized in that]~~ claim 10, further comprising the step of driving, by the adaptor module~~[(23) drives]~~, an RF module ~~[(4, 5)]~~ such that the data are modulated onto a carrier frequency ~~[fx]~~ that lies outside the DECT band.

16. ~~[Method]~~**(Amended) The method** according to according to claim 15, ~~[characterized in that]~~ wherein the carrier frequency ~~[fx]~~ lies in a 2.4 GHz band.

17. ~~[Method]~~**(Amended) The method** according to ~~according to [one of the~~  
claims 10 through 16, characterized in that] **claim 10, wherein** the adaptor module  
{(23)} converts GFSK-modulated data into pi/4 QPSK-modulated data or,  
respectively, converts received pi/4 QPSK-modulated data into GFSK-modulated  
5 data.

18. ~~[Method]~~**(Amended) The method** according to ~~[one of the claims 10~~  
through 17, characterized in that] **claim 10, further comprising the step of**  
**changing** the carrier frequency ~~[fx is changed]~~ after a predetermined time duration.  
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19. ~~[Method]~~**(Amended) The method** according to claim 18, ~~[characterized~~  
~~in that]~~ **wherein** the carrier frequency ~~[fx]~~ is changed after a time slot ~~[(Zx)]~~ or a  
frame of ~~[the]~~ **a** transmission.